What is claimed is:

1.   A network system able to suitably distribute any content as a transactable product, comprising:

a data server means comprised on at least one node on the network and supplying through the network a data package (information package) having any content for which a boundary is set relating to a predetermined attribute for the transaction, information relating to the control for utilization of the content, and information of said predetermined attribute for the transaction,

a data utilization means comprised on at least one node on the network, receiving the supplied data package, and substantially acquiring at least the content, and

a transaction management means comprised on any node on the network and carrying out predetermined processing relating to the transaction based on the information of said predetermined attribute for the transaction of the content each time the content delineated by the boundary is newly substantially acquired by the data utilization means.

2.   A network system as set forth in claim 1, wherein:

the boundary set for said data package

includes a boundary relating to charging for a

transaction of said content,

said information of said predetermined

attribute included in the data package includes

information relating to charging for said content, and

said transaction management means has a

charging processing means for carrying out processing

based on said information relating to charging every time

content delineated by said boundary is newly

10   substantially acquired by said data utilization means.

3.   A network system as set forth in claim 2,

wherein:

the boundary set for said data package

includes a boundary whereby the content delineated by

15   said boundary is content for which a predetermined

property right is set,

said information of said predetermined

attribute included in the data package includes

information relating to said property right of said

20   content, and

said transaction management means has a

property right management means for carrying out

processing for updating a property right of content

acquired based on said information relating to said

25   property right every time content delineated by said

boundary is newly substantially acquired by said data utilization means.

4.   A network system as set forth in claim 3, wherein:

the boundary set for said data package includes a boundary whereby the content delineated by the boundary is content which at least delineated into a range for which substantial acquisition has been authorized by an authorization,

said information of said predetermined attribute included in the data package includes information relating to authorization for substantial acquisition of said content of said data package, and

said transaction management means has a transaction authorization means for carrying out processing for authorization of transactions to control said substantial acquisition of said content based on said information relating to authorization of transactions when said data utilization means attempts to newly substantially acquire content delineated by said boundary.

5.   A network system as set forth in claim 4, wherein:

the boundary set for said data package includes a boundary whereby the content delineated by the

boundary is content which at least delineated into a range relating to charging and for which substantial acquisition has been authorized by an authorization,

said information of said predetermined

5   attribute included in the data package includes information relating to charging for said content, and

said transaction authorization means carries outs said processing for authorization of transactions based on said information relating to charging when said

10   data utilization means attempts to newly substantially acquire content delineated by said boundary.

6.   A network system as set forth in claim 5, wherein:

the boundary set for said data package

15   includes a boundary whereby the content delineated by the boundary is content which is at least delineated into a range owned by a predetermined owner and for which substantial acquisition has been authorized by an authorization,

20   said information of said predetermined attribute included in the data package includes information relating to ownership of said content, and

said transaction authorization means of said transaction management means carries out said processing

25   for authorization of transactions based on said

information relating to ownership when said data
utilization means attempts to newly substantially acquire
content delineated by said boundary.

7.   A network system as set forth in claim 6,
wherein:

the boundary set for said data package
includes a boundary whereby the content delineated by the
boundary is content which is at least delineated into a
range which has value as a creative work and for which
substantial acquisition has been authorized by an
authorization,

said information of said predetermined
attribute included in the data package includes
information relating to a copyright of said content, and

said transaction authorization means of said
transaction management means carries out said processing
for authorization of transactions based on said
information relating to said copyright when said data
utilization means attempts to newly substantially acquire
content delineated by said boundary.

8.   A network system as set forth in claim 7,
wherein:

said information of said predetermined
attribute of said data package includes information
designating said transaction authorization means for

carrying out processing relating to authorization of

substantial acquisition and

said transaction authorization means is

provided on any node on the network and is driven by

5   being called up by said transaction management means

based on said information designating said transaction

authorization means.

9.   A network system as set forth in claim 8,

wherein the substantial acquisition of said content in

10   said data utilization means includes acquisition of said

data package and use of said content based on information

relating to control for utilization of said content.

10.   A network system as set forth in claim 9,

wherein:

15   said information relating to control for

utilization of said content included in said data package

has information for control of said content from the node

in which the content exists to the node of the data

utilization means and

20   further provision is made of a transmission

means for transmitting said content to said data

utilization means through said network based on

information for controlling said transmission when the

data utilization means has requested substantial

25   acquisition of said content.

11   A network system as set forth in claim 10, wherein:

said data package has, as its content, time series continuous data existing on any node on said network and has, as information for control for utilization of said content, information for control of transmission of said time series continuous data to said data utilization means,

provision is further made of a transmission management means generated on any node on the network for managing the transmission of said time series continuous data based on said information relating to control for utilization of said content when said data utilization means requests substantial acquisition of said time series continuous data,

a transmission means generated by said transmission management means on the node where said time series continuous data exists for acquiring said time series continuous data and transmitting it in a predetermined transfer format, and

a reception means generated by said transmission management means on the node where said data utilization means exists for receiving data transmitted by said predetermined format and supplying it to said data utilization means, and

a desired location of said time series
continuous data is transmitted to said data utilization
means and said data utilization means substantially
acquires said transmitted time series continuous data
5　　through said transmission means and said reception means
based on the control of said transmission management
means.

12.　A network system as set forth in claim 11,
wherein said information relating to control for
10　　utilization of said content includes information
designating a processing means for utilization of said
content and all, some, or one of information on a type of
the content, a property of the content, restrictions on
utilization, owner, creator, type of content, and type of
15　　service.

13.　A network system as set forth in claim 12,
wherein said data package further includes information
relating to the nature of the content itself.

14.　A network system as set forth in claim 13,
20　　wherein any information of said information of the data
package is information referring to information
substantially existing in another data package.

15.　A network system as set forth in claim 14,
wherein said data package substantially has part of
25　　information substantially existing in said other data

package.

16. A network system as set forth in claim 15, wherein further provision is made of:

a reference request generating means for generating a reference request for referring to the entity of said data when said data utilization means utilizes information of said data package referring to another data package and

a management means for managing information on nodes in the vicinity of any node on the network for any such node and for searching for a destination of reference by successively propagating said reference request to nodes which may might substantially connect with the node of the designation of reference of said reference request.

17. A network system as set forth in claim 16, wherein further provision is made of a data package disposal means for managing, for said data package, the state by which information of said data package is referenced from other data packages and managing the disposal of said data package based on said managed state.

18. A data distribution method in a network through which a plurality of nodes are connected for distributing any content as a transactable product to a

data utilization means comprised of at least one node on the network, comprising:

sending through the network a data package (information package) having any content for which a

5 boundary is set relating to a predetermined attribute for the transaction, information relating to the control for utilization of the content, and information of a predetermined attribute for the transaction,

receiving the data package supplied by the

10 data utilization means, substantially acquiring at least the content, and

carrying out predetermined processing relating to the transaction based on the information of the predetermined attribute for the transaction of the

15 content each time the content delineated by the boundary is newly substantially acquired by the data utilization means.

19. A data distribution method as set forth in claim 18, wherein:

the boundary set for said data package includes a

20 boundary relating to charging for a transaction of said content,

said information of said predetermined attribute included in the data package includes

25 information relating to charging for said content, and

said predetermined processing relating to a transaction includes charging processing based on said information relating to charging.

20. A data distribution method as set forth in claim 19, wherein:

the boundary set for said data package includes a boundary whereby the content delineated by said boundary is content for which a predetermined property right is set,

said information of said predetermined attribute included in the data package includes information relating to said property right of said content, and

said predetermined processing relating to a transaction includes processing for updating a property right of content acquired based on said information relating to said property right.

21. A data distribution method as set forth in claim 20, wherein:

the boundary set for said data package includes a boundary whereby the content delineated by the boundary is content which at least delineated into a range for which substantial acquisition has been authorized by an authorization,

said information of said predetermined

attribute included in the data package includes

information relating to authorization for substantial

acquisition of said content of said data package, and

    said predetermined processing relating to a

5   transaction includes processing for authorization of said

substantial acquisition of said content based on said

information relating to authorization of transactions

when said data utilization means attempts to newly

substantially acquire content delineated by said

10   boundary.

    22.   A data distribution method as set forth in

claim 21, wherein:

    the boundary set for said data package

includes a boundary whereby the content delineated by the

15   boundary is content which at least delineated into a

range relating to charging and for which substantial

acquisition has been authorized by an authorization,

    said information of said predetermined

attribute included in the data package includes

20   information relating to charging for said content, and

    said processing for authorization of

substantial acquisition of said content includes

processing carried out based on said information relating

to charging.

25   23.   A data distribution method as set forth in

claim 22, wherein:

the boundary set for said data package includes a boundary whereby the content delineated by the boundary is content which is at least delineated into a

5 range owned by a predetermined owner and for which substantial acquisition has been authorized by an authorization,

said information of said predetermined attribute included in the data package includes

10 information relating to ownership of said content, and

said processing for authorization of substantial acquisition of said content includes processing carried out based on said information relating to ownership.

15 24. A data distribution method as set forth in claim 23, wherein:

the boundary set for said data package includes a boundary whereby the content delineated by the boundary is content which is at least delineated into a

20 range which has value as a creative work and for which substantial acquisition has been authorized by an authorization,

said information of said predetermined attribute included in the data package includes

25 information relating to a copyright of said content, and

said processing for authorization of
substantial acquisition of said content including
processing carried out based on said information relating
to said copyright.

5   25.   A data distribution method as set forth in
claim 24, wherein:

said information of said predetermined
attribute of said data package includes information
designating said transaction authorization means for
10   carrying out processing relating to authorization of
substantial acquisition and

said processing for authorization of
substantial acquisition being carried out by a
transaction authorization means provided on any node on
15   the network being selectively called up based on said
information designating said transaction authorization
means.

26.   A data distribution method as set forth in
claim 25, wherein the substantial acquisition of said
20   content in said data utilization means includes
acquisition of said data package and use of said content
based on information relating to control for utilization
of said content.

27.   A data distribution method as set forth in
25   claim 26, wherein:

said information relating to control for
utilization of said content included in said data package
has information for control of said content from the node
in which the content exists to the node of the data

5 utilization means and

said data package is transmitted by
transmitting said data package including said content to
said data utilization means through said network based on
information for controlling said transmission in

10 accordance with a request for substantial acquisition of
said content by said data utilization means.

28. A data distribution method as set forth in
claim 27, wherein:

said data package has, as its content, time

15 series continuous data existing on any node on said
network and has, as information for control for
utilization of said content, information for control of
transmission of said time series continuous data to said
data utilization means,

20 a transmission management means for managing
the transmission of said time series continuous data
based on said information relating to control for
utilization of said content is generated on any node on
the network when said data utilization means requests

25 substantial acquisition of said time series continuous

data,

a transmission means for acquiring said time series continuous data and transmitting it in a predetermined transfer format is generated on the node

5   where said time series continuous data exists, and

a reception means for receiving data transmitted by said predetermined format and supplying it to said data utilization means is generated on the node where said data utilization means exists, and

10   a desired location of said time series continuous data is transmitted to said data utilization means through said transmission means and said reception means based on the control of said transmission management means.

15   29.   A data distribution method as set forth in claim 28, wherein said information relating to control for utilization of said content includes information designating a processing means for utilization of said content and all, some, or one of information on a type of

20   the content, a property of the content, restrictions on utilization, owner, creator, type of content, and type of service.

30.   A data distribution method as set forth in claim 29, wherein said data package further includes

25   information relating to the nature of the content itself.

31. A data distribution method as set forth in claim 30, wherein any information of said information of the data package is information referring to information substantially existing in another data package.

5   32. A data distribution method as set forth in claim 31, wherein said data package substantially has part of information substantially existing in said other data package.

33. A data distribution method as set forth in claim 32, wherein:

10   claim 32, wherein:

said information substantially existing in said other data package generates a reference request by which said data utilization means refers to the entity of said data and

15   a network management means provided for any node of the network for managing information on nodes in the vicinity of any such node successively propagates said reference request to nodes which may might substantially connect with the node of the designation of reference of

20   said reference request.

34. A data distribution method as set forth in claim 33, wherein:

the state by which information of said data package is referenced from other data packages is managed

25   for said data package and

an unnecessary data package is suitably disposed of based on said managed state.

35. A computer readable recording medium on which a data package for distribution of any content as a

5 product for transaction in a network through which a plurality of nodes are connected is recorded and which can be read by a computer substantially connected to the network, recorded a data package comprising:

any content for which a boundary is set

10 relating to a predetermined attribute for the transaction,

information relating to the control for utilization of the content, and

information of said predetermined attribute

15 for the transaction.

36. A computer readable recording medium as set forth in claim 35, wherein:

the boundary set for said data package includes a boundary relating to charging for charging processing carried out each time content delineated by said boundary is substantially transacted,

said information of said predetermined attribute included in the data package includes information relating to charging for said content and

25 used for said charging processing.

37.   A computer readable recording medium as set forth in claim 36, wherein:

the boundary set for said data package includes a boundary whereby the content delineated by said boundary is content for which a predetermined property right is set so as to perform processing for updating a property right of content acquired based on said information relating to said property right every time content delineated by said boundary is substantially transacted and

said information of said predetermined attribute included in the data package includes information relating to said property right of said content and used for processing for updating said property right.

38.   A computer readable recording medium as set forth in claim 37, wherein:

the boundary set for said data package includes a boundary whereby the content delineated by the boundary is content which at least delineated into a range for which substantial transaction has been authorized by an authorization so as to perform processing for authorization of said transaction when the content delineated by said boundary is to be substantially transacted and

said information of said predetermined

attribute included in the data package includes

information relating to authorization for substantial

transaction of said data package and is used for the

5   processing for authorization of said transaction.

    39.   A computer readable recording medium as set

forth in claim 38, wherein:

    a boundary relating to charging is set as the

boundary set in the data package giving a content at

10   least delineated into a range for which substantial

transaction has been authorized by an authorization and

    information relating to charging for the

content is included as the information relating to

authorization of said transaction included in said data

15   package.

    40.   A computer readable recording medium as set

forth in claim 39, wherein:

    a boundary whereby the content delineated by

the boundary is content owned by a predetermined owner is

20   set as the boundary set in the data package giving a

content at least delineated into a range for which

substantial transaction has been authorized by an

authorization and

    information relating to the owner of said

25   content is included as the information relating to

authorization of said transaction included in said data package.

41.   A computer readable recording medium as set forth in claim 40, wherein:

5   a boundary whereby the content delineated by the boundary is content which has value as a creative work is set as the boundary set in the data package giving a content at least delineated into a range for which substantial transaction has been authorized by an

10   authorization and

information relating to the copyright is included as the information relating to authorization of said transaction included in said data package.

42.   A computer readable recording medium as set

15   forth in claim 41, wherein:

said information of said predetermined attribute of said data package includes information designating said transaction authorization means provided on any node on the network, operating by being called up,

20   and carrying out processing relating to authorization for substantial transaction.

43.   A computer readable recording medium as set forth in claim 42, wherein the substantial transaction includes acquisition of said content and acquisition of

25   said content and use of said content based on information

relating to control for utilization of said content.

    44.   A computer readable recording medium as set forth in claim 43, wherein said information relating to control for utilization of said content included in said

5   data package includes information for control of transmission of said content from the node on which said content exists to said data utilization means through said network when the medium is read by a computer connected to the network.

10   45.   A computer readable recording medium as set forth in claim 44, wherein said data package includes time series continuous data as its content and information for control of transmission of said content from the node on which the content exists to said data

15   utilization means through said network when the medium is read by a computer connected to the network.

    46.   A computer readable recording medium as set forth in claim 45, wherein said information relating to control for utilization of said content includes

20   information designating a processing means for utilization of said content and all, some, or one of information on a type of the content, a property of the content, restrictions on utilization, owner, creator, type of content, and type of service.

25   47.   A computer readable recording medium as set

forth in claim 46, wherein said data package further includes information relating to the nature of the content itself.

48.   A computer readable recording medium as set

5   forth in claim 47, wherein any information of said information of the data package is information referring to information substantially existing in another data package.

49.   A computer readable recording medium as set

10   forth in claim 48, wherein said data package substantially has part of information substantially existing in said other data package.

50.   A computer readable recording medium as set forth in claim 49, wherein said data package further has

15   a region which is referenced when said data package is to be disposed of in which the state of information of said data package being referenced by other data packages is recorded.

51.   A computer readable recording medium as set

20   forth in claim 50, wherein said region in which the state of being referenced by other data packages is recorded is provided as a header of said data package.